



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2025

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000085666

Submitted Date

25-09-2025

PART A

Company Information

Company Name

RASHTRIYA CHEMICALS & FERTILIZERS,
LTD (TROMBAY UNIT)

Application UAN number

5429

Address

MAHUL ROAD , CHEMBUR , MUMBAI :
400074

Plot no

127Chembur 1 (Marawali), 1,5,5,1 to 6 (Anik)

Taluka

Kurla

Village

Marawali

Capital Investment (In lakhs)

317304.00

Scale

LSI

City

Mumbai

Pincode

400074

Person Name

Vikram Jawale

Designation

Executive Director (Trombay)

Telephone Number

9820994737

Fax Number

0222552231

Email

ed_tr@rcfltd.com

Region

SRO-Mumbai III

Industry Category

Red

Industry Type

R52 Fertilizer(basic) (excluding formulation)

Last Environmental statement submitted online

yes

Consent Number

Formate1.0/CAC/UAN.NO.:00000114391/CR/CO-2206001329

Consent Issue Date

2022-06-23

Consent Valid Upto

2026-07-31

Establishment Year

1978

Date of last environment statement submitted

Sep 17 2024 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

AMMONIA

Consent Quantity

465000

Actual Quantity

407705

UOM

MT/A

UREA

483600

290528

MT/A

COMPLEX FERTILIZERS (SUPHALA + ANP)

855600

604590

MT/A

BIOLA

1200

150.04

MT/A

MICROLA

1200

561.71

MT/A

SUJALA (19:19:19) / (DRIP/FOILER)	22200	5329	MT/A
Methanol	69960	0	MT/A
METHYLAMINE	5242	0	MT/A
Ammonium Bicarbonate	25000	24242	MT/A
Sodium Nitrite/Nitrate	5230	0	MT/A
Sulphuric acid	111600	69894	MT/A
Nitric acid (100% basis)	398040	393378	MT/A
Conc. Nitric Acid	27000	17555	MT/A
Phosphoric acid	37200	0	MT/A
Treated water from STP	9864000	7982599	KL/A
Rapid wall panel (Square meter)	15069475	0	SqFeet/Y
Wall Plaster	48000	0	MT/A
Wall putty	7200	0	MT/A
Ammoniam Nitrate	345125	211781.142	MT/A
Grid Syncorinized Solar PV Power Plant	2	2702.562	Mwh
GTG Power Generation	64	164581.77	Mwh
Heat Recovery Steam Generation (MT/Hr)	130	293339	MT/MWH
Nano Urea Plant (KL / A)	27375.0000	24.5	KL/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
ARGON	7198	2638	MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	10195.00	7694.95
Cooling	19465.00	8856.59
Domestic	4505.00	1155.37
All others	0.00	0.00
Total	34165.00	17706.91

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
WATER GETS POLLUTED AND POLLUTED	13088	1969.43	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
AMMONIA (Treated Water)	1421483	1306505	M3/Anum
METHANOL (Treated Water)	0	0	M3/Anum
Sulphuric Acid (Treated Water)	78620	73484	M3/Anum
Nitric Acid (Treated Water)	323514	351103	M3/Anum

Phosphoric Acid	0	0	M3/Anum
Urea (Treated Water)	20228	7849	M3/Anum
Complex fertilizers	0	0	M3/Anum
Conc Nitric Acid (DM Water)	1274	957	M3/Anum
Ammoniam Bi Carbonate	44725	44142	M3/Anum
Sodium Nitrate/Nitrite	0	0	M3/Anum
Grid Syncorinized Solar PV Power Plant	100	128	M3/Anum
Ammoniam Nitrate (AN) Plant	0	0	M3/Anum
Drinking Water (BMC)	218962	220124	M3/Anum
HRSG (DM Water)	306803	161035	M3/Anum
NSGP (Treated Water)	1002395	729349	M3/Anum

3) Raw Material Consumption (Consumption of raw material per unit of product)

<i>Name of Raw Materials</i>	<i>During the Previous financial Year</i>	<i>During the current Financial year</i>	<i>UOM</i>
Rock phosphate	116166.875	131964	MT/A
MAP	116736.310	114036	MT/A
DAP	348.086	0	MT/A
KCL	148670	157743.000	MT/A
SULPHUR	24278.77	22781.815	MT/A
NEEM OIL	127730.000	106826	Ltr/A
AMMONIA	442047.048	407820.14	MT/A
Soda Ash	0	0	MT/A
Caustic Soda Lye	0	0	MT/A
Natural Gas (as feed)	198254.639	182221.1521	MT/A

4) Fuel Consumption

<i>Fuel Name</i>	<i>Consent quantity</i>	<i>Actual Quantity</i>	<i>UOM</i>
NATURAL GAS	168455.713	159739.047	MT/A
DIESEL	110.551	124.403	MT/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

<i>Pollutants Detail</i>	<i>Quantity of Pollutants discharged (kL/day)</i>	<i>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</i>	<i>Percentage of variation from prescribed standards with reasons</i>	<i>Standard</i>	<i>Reason</i>
	<i>Quantity</i>	<i>Concentration</i>	<i>%variation</i>		
pH	1969.43	7.45	0	NA	NA
Ammonical Nitrogen as N	1969.43	14.81	0	NA	NA
Free Ammonical Nitrogen as N	1969.43	0	0	NA	NA
Nitrate Nitrogen as N	1969.43	16.1	0	NA	NA
Cynide as Cn	1969.43	0	0	NA	NA

Vanadium as V	1969.43	0	0	NA	NA
Arsenic as As	1969.43	0	0	NA	NA
Phosphates as P	1969.43	4.79	0	NA	NA
Oil & grease	1969.43	0	0	NA	NA
Suspended solids	1969.43	31.67	0	NA	NA
Flourides as F	1969.43	0.56	0	NA	NA
Hexavalent Chromium as Cr	1969.43	0	0	NA	NA
Total Chromium as Cr	1969.43	0	0	NA	NA
Total residual chlorine (as Cl2)	1969.43	0.17	0	NA	NA
BOD	1969.43	7.77	0	NA	NA
Total dissolved solids	1969.43	988.45	0	NA	NA
Total Kjeldhal Nitrogen as N	1969.43	38.52	0	NA	NA

[B] Air (Stack)

<i>Pollutants Detail</i>	<i>Quantity of Pollutants discharged (kL/day)</i>	<i>Concentration of Pollutants discharged(Mg/NM3)</i>	<i>Percentage of variation from prescribed standards with reasons</i>		
	<i>Quantity</i>	<i>Concentration</i>	<i>%variation</i>	<i>Standard</i>	<i>Reason</i>
UREA (PM emission)	50000	16.42	0	NA	NA
SPM/TPM (ANP)	28500	0	0	NA	NA
SO2 Boiler	32400	0	0	NA	NA
SO2 (Sulphuric acid Plant)in ppm	24877	144	0	NA	NA
Acid Mist (Sulphuric acid Plant)	24877	9.99	0	NA	NA
Fluorine (Suphala) in ppm	40000	2.6	0	NA	NA
MP.Nitric Acid (NOx) in ppm	140000	39	0	NA	NA
Ammonia (Urea Vent Stack)	4000	40.96	0	NA	NA
Ammonia (Suphala)	40000	71.37	0	NA	NA
HP.Nitric Acid (NOx) in ppm	51000	16	0	NA	NA
Dust from (Suphala plant)	40000	30.10	0	NA	NA

Part-D

HAZARDOUS WASTES

1) From Process

<i>Hazardous Waste Type</i>	<i>Total During Previous Financial year</i>	<i>Total During Current Financial year</i>	<i>UOM</i>
5.1 Used or spent oil	99.2	19.81	MT/A
18.1 Spent catalyst	219.76	0	MT/A
17.1 Process acidic residue, filter cake, dust	30.997	12.037	MT/A

2) From Pollution Control Facilities

<i>Hazardous Waste Type</i>	<i>Total During Previous Financial year</i>	<i>Total During Current Financial year</i>	<i>UOM</i>
35.3 Chemical sludge from waste water treatment	3829.54	1279.89	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Chalk (Sale)	2414.180	0	MT/A
Gypsum (Sale)	16826.670	0	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Metal Waste Sold	876.29	972.8	MT/A
Non metal waste sold	629.86	580.17	MT/A
Plastic Waste Disposed as per PWM 2016 Rules	3600	7500	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
17.1 Process acidic residue, filter cake, dust	23.500	8.1	MT/A
35.3 Chemical sludge from waste water treatment	3649.65	1013.22	MT/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
35.3 Chemical sludge from waste water treatment	1279.89	MT/A	The typical analysis of Chemical Sludge from ETP 1) Moisture Content : 40.25, 2) Total P2O5 : 31.65 ,3)Water soluble P2O5-0.40, 4)CO2- 3.85, 5)Acid Insoluble- 4.92, 6)Ammonium Nitrate as N : 0.38, 7

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
CHALK	0	MT/A	The typical analysis of solid waste, Chalk (Calcium Carbonate) is as given below: Constituents Value , % w/w 1)Free moisture Content:- 26.84, Dry basis analysis 1)Calcium carbonate as CaCO3 :-96.44, 2
GYPSUM	0	MT/A	Analysis of Gypsum not available as their was no Generation or Sale of Gypsum.for the year 2024 - 25

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
-------------	---	--	--------------------------------	--------------------------------------	-----------------------------	-----------------------------------

AMMONIA- V :Revamp project is implemented as a part of energy improvement schemes to meet the new energy norms for Trombay Urea plant. Energy savings (GCal/MT) Savings (Rs. Lakhs/Yr) 0.219 Rs.3500 l	0	0	0	0	6500	3500
Ammonia-V : Cooling tower Fan A replaced with improved design.Saving Rs.18.26 Lakhs/Annum	0	0	0	182.6	10.0	18.2
Urea : Old carbamate ejector replaced with new ejector. Saving Rs.272 lakhs/annum	0	500	0	0	223	272
Ammonia - I: Primary and secondary Reformer catalyst replaced. Saving Rs.720 lakhs/Annum	0	0	0	0.162	226	720
SGP : New CW pump-02 with higher capacity installed. Saving Rs.6.16 Lakhs/Annum	0	0	0	0.03	5.0	6.16
NAG : Utilizing Air from SGP IR-2 Compressor in MPNA plant process as secondary air. Savings Rs.1980 lakhs/Annum	0	0	0	0.137	20.02	1980
SAP : Installation of Horizontal pump for Molten sulphur Unloading from Tanker to Clean Tank.. Saving	0	0	0	0.03	1.10	9.63
SAP :Super Vinyl ester relining of WSA storage Tank-V-09 in Sulphuric acid plant. Reducing maintenance frequency & Acid leakages. Loss of Acid during year 24/25 =350 MT Reduced hazardous waste from c	0	350	0	0	35	1.75

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
Waste disposal & treatment cost (includes ETP /STP sludge & Sulphur sludge disposal cost.)	Recycling of Hazardous Waste	21.54
Cost for air emissions Maintenance of Air & Stack monitoring Instruments (Wireless , Stack monitoring, filters, agents etc.)	Maintenance of Monitoring Equipments	36.63
External Party monitoring for Environment Parameters in and around the Factory.	Monitoring of Various Parameters by MoEFCC approved party	3.97
Operation and Maintenance, material and services, and related personnel costs for running ETP , Old STP and New STP (Trombay Unit) for 2022-23 is	Operation and Maintenance ETP, Old STP and New STP	9834.09
Cost for Recycling of Plastic Waste as per PWM 2016 as Brand Owner	CAs per the Plastic Waste Management Rule 2016	75.20

Cost for Maintenance of ISO Standards & Certificates in RCF, Trombays IMS training IMS External Audit	IMS Awareness & Audits from External Accredited Parties for ISO Standards training & Display Board	1.47
Cost for Maintenance of Real Time Display Board	Display Board for Displaying Real Time Environment Data for Public Display	1.41
Cost for Installation and Maintenance of Air pollution Mitigation equipment in Diamond Garden & Anna Bahu Sathe Garden at Chembur initiated by MPCB	Air Pollution Control Machine Installed as instructed by MPCB for Controlling Air Pollution around Designated Chembur Area for Public Display	42.3

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Waste disposal & treatment cost (includes ETP /STP sludge & Sulphur sludge disposal cost.)	Recycling of Hazardous Waste	37.00
Cost for air emissions Maintenance of Air & Stack monitoring Instruments (Wireless ,Stack monitoring, filters, agents etc.)	Maintenance of Monitoring Equipments	30.00
External Party monitoring for Environment Parameters in and around the Factory.	Monitoring of Various Parameters by MoEFCC approved party	5.5
Operation and Maintenance, material and services, and related personnel costs for running ETP , Old STP and New STP (Trombay Unit) for 2023-24 is	Operation and Maintenance ETP, Old STP and New STP	9000.00
Cost for Recycling of Plastic Waste as per PWM 2016 as Brand Owner	CAs per the Plastic Waste Management Rule 2016	75.20
Cost for Maintenance of ISO Standards & Certificates in RCF, Trombays IMS training IMS External Audit	IMS Awareness & Audits from External Accredited Parties for ISO Standards training & Display Board	1.00
Cost for Maintenance of Real Time Display Board	Displaying Real Time Environment Data for Public Display	1.65

Part-I

Any other particulars for improving the quality of the environment.

Particulars

For Mitigation the issue of poor air quality in Mumbai city, RCF in collaboration with Govt. of Maharashtra, BMC and MPCB also took the initiative to help in reduction of Air Pollution in Mumbai City. As recommended by MPCB, two Air purification Units Costing Rs. 43.59 Lakhs from M/s. Amida Cleantech's have been installed at Sahityaratan Lokshahir Annabhau Sathe Udyan and Shri Narayan Gajanan Acharya Udyan popularly known as Diamond Garden. This shows the commitment of RCF, Trombay to keep the e

Name & Designation

Vikram Jawale, Executive Director , RCF Ltd., Trombay Unit

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000085666

Submitted On:

25-09-2025